

| Exhibit P-40, Budget Item Justification Sheet | | | | | | | | Date: February 2004 | | | | |
|--|-------------|--|--|------------|---------------------------------|---------|---------|--|---------|---------|-------------|------------|
| Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4) | | | | | | | | P-1 Item Nomenclature: M1A1 Firepower Enhancement | | | | |
| Program Elements: 0206211M Divisions (Marine) | | | | Code: A | Other Related Program Elements: | | | | | | | |
| | Prior Years | | | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | To Complete | Total Prog |
| Proc Qty | | | | | 5 | 148 | 126 | 19 | 79 | | | 377 |
| Gross Cost | 0.0 | | | 0.0 | 4.2 | 36.9 | 33.2 | 17.8 | 23.0 | 0.0 | 0.0 | 115.1 |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | | | 0.0 | 4.2 | 36.9 | 33.2 | 17.8 | 23.0 | 0.0 | 0.0 | 115.1 |
| Initial Spares | 0.0 | | | 0.0 | 0.0 | 2.0 | 2.1 | 1.3 | 0.0 | 0.0 | 0.0 | 5.4 |
| Total Proc Cost | 0.0 | | | 0.0 | 4.2 | 38.9 | 35.3 | 19.1 | 23.0 | 0.0 | 0.0 | 120.5 |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |
| <p>M1A1 Firepower Enhancement Program (FEP): The FEP system is a suite of upgrades for the M1A1 Tank. It will include a second-generation thermal sight, a north finding/far target location capability, and an improved eye safe laser range finder. The system will increase the tank crew's ability to detect, recognize, and identify targets. It will integrate current/planned situational awareness systems.</p> <p>AAO: 403 Firepower Enhancement Systems Funded: 377 Delta: 26 systems</p> | | | | | | | | | | | | |

| Exhibit P-5, Weapon WPN SYST Cost Analysis | | Appropriation/ Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4) | | | P-1 Line Item Nomenclature: M1A1 Firepower Enhancement | | | Weapon System Type: | | | Date: February 2004 | | |
|--|----------|---|--|--|---|------|----------|---------------------|------|----------|------------------------|------|----------|
| Weanon Svstem Cost Elements | ID CD | | | | FY 03 | | | FY 04 | | | FY 05 | | |
| | | | | | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost | TotalCost | Qty | UnitCost |
| | | | | | \$000 | Each | \$ | \$000 | Each | \$ | \$000 | Each | \$ |
| Hardware FEP System | | | | | | | | 1426 | 5 | 285154 | 31933 | 148 | 215763 |
| Refurbishment of 5 FEP Systems* | | | | | | | | 461 | | 92246 | | | |
| System Engineering Support | | | | | | | | 125 | | | 2739 | | |
| Government Engineering Services | | | | | | | | 200 | | | 299 | | |
| Program Management Support | | | | | | | | 244 | | | 910 | | |
| Installation of FEP system | | | | | | | | | | | | | |
| Integrated Logistics Support (Training Equip, Common Support Equip, and Peculiar Support Equip) | | | | | | | | | | | 992 | | |
| Technical Documentation | | | | | | | | 150 | | | | | |
| LRIP Testing and Evaluation (Training and IOT&E) | | | | | | | | 1585 | | | | | |
| TOTAL | | | | | | | | 4191 | | | 36873 | | |
| ACTIVE | | | | | | | | 4191 | | | 36873 | | |
| RESERVE | | | | | | | | | | | | | |
| *5 systems being refurbished are same systems being procured with FY04 PMC funds and are 5 of the total 377. | | | | | | | | | | | | | |

| Exhibit P-5a, Budget Procurement History and Planning | | | | | | | | | | Date: February 2004 | |
|---|---|--------------------------|------------------------|---------------------|------------------------|----------|---|--------------|------------------|------------------------|--|
| Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4) | | | | Weapon System Type: | | | P-1 Line Item Nomenclature: M1A1 Firepower Enhancement | | | | |
| WBS Cost Elements: Fiscal Years | Contractor and Location | Contract Method and Type | Location of PCO | Award Date | Date of First Delivery | QTY Each | Unit Cost \$ | Specs Avail? | Date Revsn Avail | RFP Issue Date | |
| FY04 | Production Contract to be Awarded for FY04-FY09 | FFP | MARCORSYSCOM, Quantico | Oct-03 | Mar-04 | 5 | 285154 | N/A | N/A | N/A | |
| FY05 | | FFP | MARCORSYSCOM, Quantico | Feb-05 | Nov-05 | 148 | 215763 | N/A | N/A | N/A | |
| REMARKS: | | | | | | | | | | | |

| INDIVIDUAL MODIFICATION | | | | | | | | | | | | | | | | Date | February 2004 | | | | |
|---|--------|---------|----|----|----|---------|----|----|----|---------|----|----|----|---------|----|------|---------------|----------|--------|---|---|
| MODIFICATION TITLE: Firepower Enhancement Program | | | | | | | | | | | | | | | | | | | | | |
| MODELS OF SYSTEMS AFFECTED: M1A1 Tank | | | | | | | | | | | | | | | | | | | | | |
| DESCRIPTION / JUSTIFICATION: FEP will allow the tank to engage targets faster, at ranges approximately twice as far as the current system, and in all weather and battlefield conditions. The likelihood of fratricide will be reduced due to the ability to identify targets at longer ranges. Indirect fire systems and close air support will be improved by FEP's ability to provide target grid information quickly (less than one second) and accurately (within 80 meters Circular Error Probable (CEP)). The far target location capability currently does not exist on the tank. The eye safe laser range finder will allow crews to train with the fire control system and far target locator anywhere safely. | | | | | | | | | | | | | | | | | | | | | |
| DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Milestone II/B - 22 April 02 IOT&E - Apr 04 Milestone C - Sep 04 Production Option Award - Planned Feb 05 | | | | | | | | | | | | | | | | | | | | | |
| Installation Schedule: | | | | | | | | | | | | | | | | | | | | | |
| | Pr Yr | | | | | | | | | FY 2003 | | | | FY 2004 | | | | FY 2005 | | | |
| | Totals | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| Inputs | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | | | | | | | | | | | | | | | | | | | | |
| | | FY 2006 | | | | FY 2007 | | | | FY 2008 | | | | FY 2009 | | | | To | Totals | | |
| | | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | Complete | | | |
| Inputs | | | | | | | | | | | | | | | | | | | | | |
| Outputs | | 24 | 30 | 13 | 31 | 42 | 28 | 15 | 29 | 36 | 40 | 38 | 13 | 15 | 12 | 11 | | | 377 | | |
| METHOD OF IMPLEMENTATION: FFP ADMINISTRATIVE LEADTIME: 1 Months PRODUCTION LEADTIME: 8 Months | | | | | | | | | | | | | | | | | | | | | |
| Contract Dates: Oct 03 - Apr 09 | | | | | | | | | | | | | | | | | | | | | |
| Delivery Date: LRIP (5 units) delivered 5 months after award. Deliveries begin 10 months after award of each production contract. | | | | | | | | | | | | | | | | | | | | | |

INDIVIDUAL MODIFICATION

Date

February 2004

MODIFICATION TITLE (Cont):

FINANCIAL PLAN: (\$ in Millions)

| | FY 2002 | | FY 2003 | | FY 2004 | | FY 2005 | | FY 2006 | | FY 2007 | | FY 2008 | | FY 2009 | | TC | | TOTAL | |
|---------------------------|---------|----|---------|--------|---------|-------|---------|----|---------|-------|---------|-------|---------|-------|---------|----|-----|----|-------|---------|
| | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ | Qty | \$ |
| RDT&E | | | | 04.656 | | 5.952 | | | | | | | | | | | | | | 10.608 |
| PROCUREMENT | | | | | | | | | | | | | | | | | | | | |
| Kit Quantity | | | | | 5 | 1.426 | 148 | | 126 | | 19 | | 79 | | | | | | 377 | 01.426 |
| Inst Kits, Nonrecurring | | | | | | | 31.933 | | 27.929 | | 5.007 | | 18.873 | | | | | | | 83.742 |
| Equipment, Nonrecurring | | | | | | | | | | | | | | | | | | | | |
| Refurb 5 FEP Sys | | | | | | 0.461 | | | | | | | | | | | | | | 0.461 |
| ECO | | | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | | | |
| LRIP Testing & Evaluation | | | | | | 1.577 | | | | | | | | | | | | | | 1.577 |
| Documentation | | | | | | 0.150 | | | | | | | | | | | | | | 0.150 |
| Govt Eng Services | | | | | | 0.177 | 0.299 | | 0.295 | | 0.443 | | 0.459 | | | | | | | 1.673 |
| Program Management | | | | | | 0.275 | 0.910 | | 0.789 | | 0.525 | | 0.806 | | | | | | | 3.305 |
| Retrofit Kits | | | | | | | | | | | 3.660 | | | | | | | | | 3.660 |
| CLS (Repair Facility) | | | | | | | | | | | 5.150 | | | | | | | | | 5.150 |
| Integrated Logistics Spt | | | | | | | 0.992 | | 0.989 | | 0.834 | | | | | | | | | 2.815 |
| (Training Equip, | | | | | | | | | | | | | | | | | | | | |
| Common Spt Equip, and | | | | | | | | | | | | | | | | | | | | |
| Peculiar Spt Equip) | | | | | | | | | | | | | | | | | | | | |
| Systems Eng Support | | | | | | 0.125 | 2.739 | | 2.813 | | 1.877 | | 2.552 | | | | | | | 10.106 |
| Installation of Hardware | | | | | | | | | | | | | | | | | | | | |
| FY 2000 Eqpt -- Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2001 Eqpt -- Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2002 Eqpt -- Kits | | | | | | | | | | | | | | | | | | | | |
| FY 2003 Eqpt -- kits | | | | | | | | | | | | | | | | | | | | |
| FY 2004 Eqpt -- kits | | | | | | | | | | | | | | | | | | | | |
| FY 2005 Eqpt -- kits | | | | | | | | | | | | | | | | | | | | |
| FY 2006 Eqpt -- kits | | | | | | | | | 98 | 0.353 | | | | | | | | | 98 | 0.353 |
| FY 2007 Eqpt -- kits | | | | | | | | | | | 114 | 0.306 | | | | | | | 114 | 0.306 |
| FY 2008 Eqpt -- kits | | | | | | | | | | | | | 127 | 0.290 | | | | | 127 | 0.290 |
| FY 2009 Eqpt -- kits | | | | | | | | | | | | | | | 38 | | | | 38 | |
| Installment Cost | | | | | | | | | 0.353 | | 0.306 | | 0.290 | | | | | | 377 | 0.949 |
| Total Procurement Cost | | | | | | 4.191 | 36.873 | | 33.168 | | 17.802 | | 22.980 | | | | | | | 115.100 |

[illegible]

[illegible]